ABSTRACT OF THE DISCLOSURE

HIERARCHICAL PROCESSING OF SIMULATION MODEL EVENTS

A method, system, and data structure for instrumenting a cross-hierarchical simulation event are disclosed herein. The cross-hierarchical simulation event is a function of a first simulation event residing at a first level of simulation model hierarchy and a second simulation event residing at a second level of simulation model hierarchy. In accordance with the present invention, a cross-hierarchical instrumentation entity is defined within the first level of simulation model hierarchy utilizing an instrumentation declaration comment containing data representing a cross-hierarchical instrumentation entity. A first input of said instrumentation entity is connected to the first simulation event and a second input of the instrumentation entity is connected to the second simulation event utilizing an input port mapping comment that declares the cross-hierarchical instrumentation entity to generate a cross-hierarchical simulation event.